

CAREER OPPORTUNITY ANNOUNCEMENT

DO NOT REMOVE POSTING

AN EQUAL OPPORTUNITY EMPLOYER. CANDIDATES WILL BE CONSIDERED WITHOUT DISCRIMINATION FOR ANY NONMERIT REASON SUCH AS RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, POLITICAL AFFILIATION, MARITAL STATUS, PHYSICAL OR MENTAL HANDICAP, AGE, OR MEMBERSHIP IN AN EMPLOYEE ORGANIZATION.

POSITION TITLE Sr. Materials Engineer		ANNOUNCEMENT NUMBER 0253002	DATES: OPENING 10/22/01	CLOSING (Close of business) 11/30/01	EXPIRATION (For "Open Until Filled" vacancies remove posting on this date)
SERIES 0806	GRADE GG-15	KNOWN PROMOTION POTENTIAL TO GG-15	AREA OF CONSIDERATION <input checked="" type="checkbox"/> NATIONWIDE <input type="checkbox"/> WASHINGTON, DC COMMUTING AREA <input type="checkbox"/> REGION COMMUTING AREA <input type="checkbox"/> OTHER		TYPE OF POSITION <input checked="" type="checkbox"/> BARGAINING UNIT <input checked="" type="checkbox"/> FULL-TIME <input checked="" type="checkbox"/> PERMANENT APPOINTMENT INCUMBENT IS SUBJECT TO RANDOM DRUG TESTING <input type="checkbox"/> NONBARGAINING UNIT <input type="checkbox"/> PART-TIME <input type="checkbox"/> TEMPORARY APPOINTMENT NOT TO EXCEED
ORGANIZATION LOCATION Office of Nuclear Regulatory Research Division of Engineering Technology Materials Engineering Branch			NAME OF IMMEDIATE SUPERVISOR Nilesh Chokshi		
DUTY LOCATION Rockville, MD		TRAVEL REQUIREMENTS Occasional			

APPLICATION INSTRUCTIONS: COMPLETE AND SUBMIT THE FOLLOWING TO THE ADDRESS SPECIFIED AT THE BOTTOM OF THIS PAGE. (Use the Vacancy Announcement Number in all correspondence.)

1. AN UPDATED SF171 PERSONAL QUALIFICATIONS STATEMENT OR APPLICATION FOR GOVERNMENT EMPLOYMENT OR RESUME
2. AN NRC FORM 115, VACANCY APPLICATION STATUS NOTICE (NRC applicants only);
3. A COPY OF YOUR CURRENT PERFORMANCE APPRAISAL OR A SIGNED STATEMENT THAT IT IS NOT AVAILABLE.
4. NRC APPLICANTS(ONLY); FOUR COPIES OF APPLICATION MATERIALS REQUESTED.
5. THE NRC IS A ZERO-TOLERANCE AGENCY WITH RESPECT TO ILLEGAL DRUG USE.
6. OTHER (Specify):

NOTICE: APPLICATIONS MAY BE REFERRED TO THE RATING ENTITY A MINIMUM OF SIXTEEN (16) CALENDAR DAYS AFTER OPENING DATE

NONBARGAINING UNIT POSITIONS ONLY. CANDIDATES WHOSE PRESENT PROMOTION POTENTIAL DOES NOT EXCEED THE POTENTIAL OF THIS VACANCY MAY NOT BE SUBJECT TO RATING PROCEDURES AND MAY BE REFERRED DIRECTLY TO THE SELECTING OFFICIAL.

DUTIES OF POSITION (If this position is announced at multiple grade levels, these duties describe the full performance level; at lower grade levels the duties may vary slightly and will be performed under somewhat closer supervision.)

Incumbent serves as a senior materials engineer responsible for conceiving, planning, organizing, directing, coordinating, and conducting assigned major research efforts associated with the metallurgy, materials behavior, irradiation effects, environmental effects, fracture mechanics and structural integrity of safety system components of nuclear power

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QUALIFICATIONS REQUIRED (If the position is announced at multiple grade levels, these qualifications describe the full performance level, unless otherwise specified. The position description, immediate supervisor, and/or NRC Manual chapter and Appendix 4108 can be consulted for more detailed qualification requirements and/or interpretation of qualifying experience.)

Candidates may meet the basic qualifications required by:

(1) Having at least one year of experience at the next lower grade level in the occupational series listed above or in another series performing like or similar duties; OR

(2) Possessing a knowledge of the theory, principles and practices in the

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RATING FACTORS (Applicants are strongly encouraged to submit a statement addressing the Rating listed below.)

1. In-depth knowledge of materials behavior, irradiation effects, environmental effects, and structural and fracture mechanics, particularly as applied to commercial nuclear power plants and other fuel-cycle facilities. Specialized knowledge of neutron flux and fluence estimation, dosimetry, and surveillance requirements to determine changes in the material properties associated with the radiation exposure.

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FOR ADDITIONAL INFORMATION CONTACT

Jill Solan

Email: JAS6

Mail Stop: T-2D32

TELEPHONE

AREA
CODE
301

NUMBER

415-5016

SEND APPLICATION MATERIALS TO:

<input checked="" type="checkbox"/> Human Resources Services & Operations Office of Human Resources U.S. Nuclear Regulatory Commission Washington, D.C. 20555	<input type="checkbox"/> Region I Personnel Officer U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406	<input type="checkbox"/> Region II Personnel Officer U.S. Nuclear Regulatory Commission 61 Forsyth Street, SW (23T85) Atlanta, GA 30303	<input type="checkbox"/> Region III Personnel Officer U.S. Nuclear Regulatory Commission 801 Warrenville Road Lisle, IL 60532	<input type="checkbox"/> Region IV Personnel Officer U.S. Nuclear Regulatory Commission 611 Ryan Plaza Drive, Suite 400 Arlington, TX 76011
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(Continuation)

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DUTIES OF POSITION - CONTINUED

plants and other fuel cycle facilities. These efforts also include research and analyses associated with determination of radiation exposure (flux and fluence), neutron dosimetry, and surveillance of various reactor internals and the pressure vessel. The purpose of this research is to determine requirements and codes for metallurgical and structural mechanics aspects, and evaluation of radiation exposure effects on the safety systems and components of commercial nuclear power plants and other fuel-cycle facilities. Incumbent also develops corresponding regulatory guides, codes, and standards to implement research findings.

QUALIFICATIONS REQUIRED - CONTINUED

field of materials engineering as demonstrated by a degree in materials engineering or related major field of study, or by an equivalent combination of education, training, and experience.

All candidates must also have SPECIALIZED EXPERIENCE applying the theories, principles and practices of materials engineering relating to commercial nuclear power plants and other nuclear fuel-cycle facilities.

At least one year of this experience must be at the next lower grade level or equivalent.

RATING FACTORS - CONTINUED

(EXAMPLE: Describe specific training, education, and work experience that indicate your thorough knowledge of materials behavior, irradiation and environmental effects, and structural mechanics, as applied to commercial nuclear power plants and other fuel-cycle facilities. Include specific examples dealing with the neutron flux and fluence estimation, dosimetry, and surveillance. Provide examples of assignments which demonstrate your knowledge of applicable consensus codes and standards in these technical areas.)

2. Working knowledge of scientific and engineering disciplines, particularly in the related areas of materials engineering, such as welding, fatigue, and fracture mechanics.

(EXAMPLE: Describe specific training, education, and work experience that indicate your understanding of metallurgy, welding, other

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RATING FACTORS - CONTINUED

fabrication processes, materials behavior, fatigue, and fracture mechanics. Provide examples of assignments that demonstrate your knowledge of codes and standards in these technical areas.)

3. Demonstrated ability to anticipate problem areas and develop research programs leading to their resolution.

(EXAMPLE: Provide examples of relevant research programs you have developed and managed, particularly those with a focus on identification of problem areas and processes used to achieve resolution.)

4. Demonstrated ability to independently plan, direct and manage complex, highly technical research contracts.

(EXAMPLE: Describe specific training, education, and experience that demonstrate your ability to manage complex, technical research contracts. Describe your role in the oversight and direction of the contracts.)

5. Demonstrated ability to communicate complex technical issues both orally and in writing. This rating factor encompasses evidence of presentations at technical meetings, conferences, or symposia, both nationally and internationally. Provide samples of written articles in journals or technical reports.

(EXAMPLE: Describe the type of reports, presentations at technical meetings, conferences, or symposia, both nationally and internationally, that demonstrate your ability to communicate complex technical issues. Describe work assignments that demonstrate your ability to communicate technical objectives, results, and findings of research studies and programs. Provide samples of written articles in journals or technical reports.)

NOTE: Breadth, recency, and length of experience in the field; training, awards and commendations; past and current performance; and community or outside professional activities will be considered as they relate to each of the above factors to determine the level of knowledge, skill or ability of candidates.

NOTE: Salary Range: \$87,864 - \$114,224

PLEASE SUBMIT RESUME OR OF-612; STATEMENT ADDRESSING RATING FACTORS; AND YOUR MOST RECENT PERFORMANCE APPRAISAL TO:

U. S. Nuclear Regulatory Commission
Office of Human Resources

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RATING FACTORS - CONTINUED

ATTN: Jill Solan, Mail Stop T-2D32
Washington, DC 20555

If claiming 5-point veterans' preference, you must attach a copy of your DD-214, Certificate of Release or Discharge from Active Duty, or other proof of eligibility. If claiming 10-point veterans' preference you must attach an SF-15, Application for 10-Point Veterans' Preference, plus the proof required by that form.

Current/reinstatement eligible Federal employees with status (tenure group 1 or 2) will be considered through merit promotion procedures under this announcement and must submit a copy of an SF-50 (Notification of Personnel Action) to verify competitive status or reinstatement eligibility. PLEASE NOTE: NRC employees do not have to submit an SF-50. Status applicants, both NRC employees and others, who wish to be considered under both merit promotion and competitive procedures must submit two (2) complete application packages. If only one application is received, it will be considered under the merit promotion announcement only.

REASONABLE ACCOMMODATIONS WILL BE MADE FOR QUALIFIED APPLICANTS OR EMPLOYEES WITH DISABILITIES, EXCEPT WHEN DOING SO WOULD POSE AN UNDUE HARDSHIP ON THE AGENCY.

EXECUTIVE AGENCIES ARE PROHIBITED FROM ACCEPTING OR CONSIDERING APPLICANTS FOR COMPETITIVE APPOINTMENTS OR POSITIONS BASED ON POLITICAL RECOMMENDATIONS FROM MEMBERS OF CONGRESS, CONGRESSIONAL EMPLOYEES, ELECTED STATE OR LOCAL GOVERNMENT OFFICIALS, AND POLITICAL PARTY OFFICIALS. SUCH OFFICIALS MAY ONLY SUPPLY STATEMENTS REGARDING THE CHARACTER AND RESIDENCE OF THE APPLICANT.